SECTION 11. BUILDING A UNIFIED BUILD SUN PLATFORM

11.1 Saving Configuration Information from UB 2.1.3.5

Several configuration items need to be saved and/or taken note of when performing an upgrade of the Unified Build software from 2.1.3.5 to 3.0.1.6G. The following paragraphs outline steps necessary to retain configuration information.

1. Broadcasts: In order to retain the Broadcast configuration for re-entry after the installation of UB3.0.1.6G, perform the following on the TDBM Master machine:

    a. Under the FOTC/Bcst Pull Down Menu (PDM), select Broadcasts.

    b. Highlight a broadcast and select Edit. Print the Edit Window.

    c. Select Header and print the Header Edit Window. Go back tothe previous window and select Filter and print the Filter Edit window.

    d. Repeat for each broadcast. Keep the printouts together for each broadcast.

2. Communications Configuration: In order to retain the Broadcast configuration for rentry after the installation of UB3.0.1.6G, perform the following on the TDBM Master machine:

    a. Under the Comms PDM, select Communications.

    b. Print the list of communications channels.

    c. Double click each communication channel and print each Edit Channel Window.

3. AutoForward Tables: In order to retain the AutoForward table configuration for rentry after the installation of UB3.0.1.6G, perform the following on the TDBM Master machine:

    a. Select AutoForward under the Comms PDM.

    b. Double click each entry and print each Edit Window.

4. DDN Host Table: The DDN Host table can be archived to tape prior to performing the upgrade. Performthe flowing on the TDBM Master machine:

a. Using the the tar command, save the following two files to tape:

cd /h/Nauticus/data/mnt; tar cvf *<no rewind tape device>* **Messages/Host-Table Messages/Host-Table-Altr**

5. Overlays, PIMTracks, Screen Kilos, and Four Whiskey Grids: If it is necessary to save the above data it will be necessary to transmit each of the Overlays, PIMTracks, Screen Kilos, and Four Whiskey Grids from the TDBM Master Machine to a different TDBM Master Machine. A site can rename the Overlays, PIMTracks, Screen Kilos, and Four Whiskey Grids to names that are in series (i.e: 001, 002, 003), transmit them to a different TDBM Master Machine, perform the upgrade to UB 3.0.1.6G, and transmit the items back. Sites can convert a TDBM Client on the suite into a TDMB Master or they can coordinate with another site (or the OSF) and transmit the Overlays, PIMTracks, Screen Kilos, and Four Whiskey Grids to that site. When the upgrade is complete, the Overlays, PIMTracks, Screen Kilos, and Four Whiskey Grids can be transmitted back. The procedures for configuring a TDBM Master are in the UB System Administrator Guide. The procedures for transmitting Overlays, PIMTracks, Screen Kilos, and Four Whiskey Grids are documented in the UB Users Guide.

6. Briefs and Stored Slides: Briefs and Stored Slides can be archived to tape and restored after the upgrade to UB 3.0.1.6G is complete.

a. On the TDBM Master Machine tar the following directory to tape:

cd /h/Nauticus/data/mnt; tar cvf *<no rewind tape device>* **StoredScreens**

11.2 Loading and Configuring the Required Segments

Install the following application segments in accordance with the steps in this chapter:

- GCCS COE
- JMTK
- UBApps
- JMCISApps
- PRINTER
- Any additional Unified Build GCCS Application Segments (such as Theater Ballistic Missile Defense (TBMD) or ELVIS).

See Table 11-2-1.

Table 11-2-1. GCCS JMCIS Segments (Cont.)

Table 11-2-1. GCCS JMCIS Segments

Application	Version	Size	Tape	Comments
JMCIS Segments				
* ELVIS	1.3.2.0		2.2 (AP.2)	
* JMCIS Applications	3.0.1.6.02G		2.2 (AP.1)	
* Joint Mapping Toolkit	3.0.1.6.02G		2.2 (AP.1)	
* Printer	3.0.1.6.02G		2.2 (AP.1)	
* UB Applications	3.0.1.6.02G		2.2 (AP.1)	
* UBPATCH	3.0.1.6GP2		2.2 (AP.1)	

* Segment is new and should be loaded if upgrading from 2.1 to 2.2.

For more information regarding segment installation and the **Segment Installer** window, refer to the *Unified Build System Administrator's Guide*.

Login as **sysadmin** (using the default password) and select **SEGMENT INSTALLER** from the Software menu.

1. If the tape has not been previously inserted into the tape drive, insert the GCCS Application tape into the tape drive.

2. Install the GCCS COE.

When the GCCS COE segment install is complete, a warning window appears, stating that you must configure the Host/Server settings and reboot the system when the installation is complete.

3. Click OK in the warning window to dismiss it.

4. To configure the Unified Build software, a machine should be designated as the Track Database Master (TDBM). When configuring the software, the TDBM master should appear as the "***_host**" in the SysCon window and should also appear as the first entry in the "**host list**". Configure the TDBM Host and Client(s) settings as follows: (For more details on the SysCon window, see the *Unified Build System Administrator's Guide*.)

    a. From the Network menu, select **System Configuration**. The **SysCon**

window appears.

b. To set the hosts, in the Hosts box (on the left side of the window), click the toggle box beside the host entry you wish to change (starting with **Full Host #2**).

c. Click the **Full Host #2** field next to the appropriate toggle box. The field becomes active and is now editable. Enter the name of the host.

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NOTE: When entering hostnames, you should enter the name of the local host (*Athis@* machine's hostname) in the Full Host #2 field and any other hosts on the local network (other machines on your local LAN) into the subsequent Full Host fields.

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d. Verify that the hostname in the Local Hostname: field is your workstation's hostname.

e. In the TDBM Master: field, enter the TDBM Server hostname for your workstation.

f. In the GCCS environment, both the TDBM server and TDBM clients should have the TDBM **server** hostname in each of the following:

admin	***qs***
prt	***wdbm***

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NOTE: Typically, in the GCCS environment, both the TDBM server and TDBM clients should have the TDBM server hostname in each of the above fields in the SysCon window. However, to account for diverse configuration capabilities, any hostname may be entered in these fields.

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g. Click OK to save the changes you have made.

5. Update the local hosts file to reflect the local hosts which will be allowed to communicate with your system (trusted hosts) by using the Edit Local Hosts window. For more details on editing the Local Hosts, see the *Unified Build System Administrator's Guide*.

a. From the Network menu, choose Edit Local Hosts. The EDIT HOSTS window appears.

b. For each of the machines which are to be designated as trusted hosts on your LAN, highlight the IP address which corresponds to the host and click EDIT. The EDIT MACHINE window appears.

0.**NOTE:** If a host's IP address does not appear in the list in the EDIT HOSTS window, you may add it by clicking ADD. An ADD MACHINE window, similar to the EDIT MACHINE window, appears.

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c. In the EDIT MACHINE window, verify the information in the MACHINE NAME: and MACHINE ADDRESS: fields is correct. If the information in these two fields is not correct, edit it by entering the correct information in the NEW MACHINE NAME: and NEW MACHINE ADDRESS: fields.

d. In the EDIT MACHINE window, click the Trusted Machine checkbox so it is filled (**on**). This host is now a trusted host for the local machine.

e. In the EDIT MACHINE window, click ALIASES. The ALIASES window appears.

f. In the ALIASES window, click **ADD**. The ADD ALIASES window appears.

g. Enter the alias you wish to assign to the host and press [Return] to accept the entry.

IMPORTANT: You must press the [Return] key on your keyboard to accept the entered alias. If you click Cancel in the ALIASES window, the alias information will not be saved.

h. Click **OK** in the Aliases window. The ALIASES window closes, returning you to the EDIT MACHINE window.

i. Click **OK** in the EDIT MACHINE window. The EDIT MACHINE window closes, returning you to the EDIT HOSTS window.

j. Click **OK** in the EDIT HOSTS window.

7. When the GCCS COE install and Host/Server configuration is complete, use the System Reboot option under the Hardware menu to reboot the system.

WARNING: You *must* reboot the workstation after the GCCS COE segment is installed. *Do not load any additional segments without rebooting the workstation.*

8. These segments should be installed in the following order:

- JMTK
- UBApps
- JMCISApps
- PRINTER

9. When the segment installation is complete, a warning window appears stating Selected Segment(s) Installed Successfully.

10. Click the **EXIT** button to dismiss this warning window.

11. Load any additional Unified Build GCCS application segments at this time, using the Segment Installer window.

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NOTE: If you wish to do any Elint processing, you must ensure that the machine whose disk serves the /h/data/global/UB directory is loaded with the GCCSSD, Version 2.2.1 segment available on the optional Secret Data tape. Typically, the machine whose disk serves the directory is the EM Server.

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12. On the Segment Installer window, click **EXIT** to dismiss the window.

13. Using the Logout option under the Hardware menu, log out of the system.

11.3 Restoring Configuration Information from UB 2.1.3.

It is at this point that the information saved prior to upgrade is applied to the UB 3.0.1.6G build. The following paragraphs outline steps necessary to restore configuration information.

1. DDN Host Table: The DDN Host table can be restored from tape after performing the upgrade. After UB 3.0.1.6G has been loaded, un-tar the files as follows:

   cd /h/data/global/UB; tar xvf <*no rewind tape device*> *****

   After the tape has been loaded, log in as sysadmin. From the `Network` PDM, select `Config DDN Host Table` and verify that it is correct.

2. Communications Configuration: The Broadcast configuration must be re-entered after the installation of UB 3.0.1.6G. Use the printouts to re-enter the Communications configuration on the TDBM Master machine.

0.**NOTE:** It is suggested that sites replace their NETWORK Channel with a new channel that uses the NETPREC Channel.

a. As sysadmin, from the `Network` PDM, select `Set WAN UID` and enter the assigned 3 character trigram.

b. As a user, from the `Comms` PDM, select `Communications`. Click on the ADD window button. Enter the `NAME` and the `XREF` (the XREF need only be locally unique). Select the interface type and the initial settings from the supplied lists of options. Press the `-OK-` window button. Back at the `Communications` window, highlight the new entry and press the `EDIT` window button. Using the printouts created earlier, set the parameters of the communications channel to the proper values and press the `OK` window button. After the channels have been entered, select `Communications` under the `Comms` PDM, hold down the right mouse button (RMB) and select `Set Default` to store the configuration.

3. Broadcasts: The Broadcast configuration must be re-entered after the installation of UB 3.0.1.6G. Use the printouts to re-enter the Broadcast configuration on the TDBM Master machine. As a user, with the chart up (if not, from the system PDM, select `Chart`, then `Restart Chart`), from the chart menubar, select `FOTC/Bcst` and then `Broadcasts`. Use the `ADD` window button to add the new broadcast and the `EDIT` window button to adjust it.

4. AutoForward Tables: The AutoForward table configuration must be re-entered after the installation of UB 3.0.1.6G. Use the printouts to re-enter the AutoForward configuration on the TDBM Master machine. As a user, from the system menubar, select `Comms` and then `Auto-Forward Table`. Use the `ADD` window button to add each entry back in.

5. Overlays, PIMTracks, Screen Kilos, and Four Whiskey Grids: It is now that the remote site transmits your Overlays, PIMTracks, Screen Kilos, and Four Whiskey Grids back to you. The procedures for transmitting Overlays, PIMTracks, Screen Kilos, and Four Whiskey Grids are documented in the UB Users Guide.

6. Briefs and Stored Slides: Briefs and Stored Slides can be restored from after the upgrade to UB 3.0.1.6G is complete. On the TDBM Master Machine, un-tar the file as follows:

cd /h/data/global/UB; **tar xvf** *<no rewind tape device>* *****

11.4 Loading Unified Build Maps

The Unified Build software with the Joint Mapping Tool Kit is capable of displaying many DMA mapping products. These include but are not limited to: ARC Digitized Raster Graphics (ADRG), Compressed ADRG (CADRG), Compressed Imagery Base (CIB), and Vector Product Format (VPF) Maps. For details in loading these maps refer to the Unified Build 3.0.1.6G User's Guide.